



Australian Government

UEGNSG012 Construct and lay plastic gas distribution mains

Release: 1

UEGNSG012 Construct and lay plastic gas distribution mains

Modification History

Release 1. This is the first release of this unit of competency in the UEG Gas Industry Training Package.

Application

This unit involves the skills and knowledge required to construct and lay plastic gas distribution mains.

It includes constructing and laying plastic gas distribution mains using relevant tools and equipment, completing necessary documentation, and working safely in accordance with workplace procedures and relevant legislative, industry standards and codes of practice requirements.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Gas Distribution

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to construct and lay plastic gas distribution mains

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- | | |
|------------|---|
| 1.1 | Workplace safety, environmental and sustainable energy practices for the site are identified, obtained and understood |
| 1.2 | Job requirements are obtained and interpreted from |

plans, specifications and instructions

- 1.3** Relevant job requirements and workplace procedures for work activities are discussed with relevant person/s, including third parties, to determine and confirm work schedule and respective responsibilities
- 1.4** Hazards are identified, workplace safety and environmental risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
- 1.5** Scope of responsibility under the relevant job requirements, including all work permits and/or relevant notifications, is determined and confirmed to access the services and perform work in accordance with job requirements and workplace procedures
- 1.6** Equipment, tools and personal protective equipment (PPE) needed to carry out work activities are identified, obtained and checked for correct operation and safety in accordance with workplace procedures and manufacturer instructions
- 1.7** Materials, plans, diagrams, drawings and resources required for work are confirmed and obtained in accordance with workplace procedures

2 Construct and lay plastic gas distribution mains

- 2.1** Workplace safety and environmental risk control measures, schedule of work and workplace procedures for carrying out work are followed
- 2.2** Appropriate materials, tools and equipment are selected and used safely in accordance with manufacturer instructions and workplace procedures
- 2.3** Excavation bed/trench is prepared for laying of plastic pipe in accordance with relevant industry standards and workplace procedures
- 2.4** Construction and laying of plastic gas distribution mains is conducted in accordance with relevant industry standards and workplace procedures
- 2.5** Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
- 2.6** Road signs, barriers and warning devices are positioned in accordance with job instructions, workplace

		procedures and traffic management plans
	2.7	Unplanned events are referred to the relevant person/s for directions in accordance with workplace procedures
3	Complete work and relevant documentation	
	3.1	Workplace safety risk control measures for work completion are followed
	3.2	Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
	3.3	Worksite is cleaned, reinstated and made safe in accordance with workplace procedures
	3.4	Tools, equipment, and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
	3.5	Incidents are reported and followed up as required in accordance with workplace procedures
	3.6	Relevant person/s is notified of work completion in accordance with workplace procedures
	3.7	Work completion documentation is completed accurately and provided to relevant person/s in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEG Gas Industry Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit supersedes and is equivalent to UEGNSG222 Construct and lay nylon or PVC gas distribution mains and supersedes UEGNSG209 Construct and lay polyethylene gas distribution mains.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>

Assessment Requirements for UEGNSG012 Construct and lay plastic gas distribution mains

Modification History

Release 1. This is the first release of this unit of competency in the UEG Gas Industry Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements
- applying sustainable energy and environmental principles and practices
- checking tools, equipment, plant and personal protective equipment (PPE) for correct operation and safety
- cleaning, checking, and storing tools and equipment
- communicating effectively with others
- completing required documentation and reporting
- conducting quality and safety checks
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- identifying and correctly reading plans, drawings, manuals and diagrams
- identifying plant and equipment and safe operating parameters/requirements
- maintaining a clean work area
- obtaining relevant resources, tools, equipment and materials to conduct the work
- positioning road signs, barriers and warning devices
- preparing the excavation site
- preparing to construct and lay plastic gas distribution mains
- testing pipework
- working in accordance with relevant work permit/notifications.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- conditions for direct installation or insertion of plastic pipelines
- construction of plastic pipelines
- effective communication techniques

- environmental and sustainable energy principles and practices
- excavation/trenching and bedding requirements for plastic pipelines
- installation and testing of plastic pipelines
- plastic gas pipeline types, characteristics and components
- problem-solving techniques
- quality and safety checks
- relevant standards, legislation, codes and regulations
- relevant manufacturer specifications
- relevant materials, plans, diagrams, drawings and resources
- relevant materials, tools, equipment, plant, measuring devices and PPE
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant work permits and/or notifications
- relevant workplace documentation
- relevant workplace policies and procedures
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - legislated industry/technical specific requirements
 - workplace safety procedures
 - manufacturer requirements
 - hazards, risk assessment and control measures
 - dangers of working with live gas
- road signs, barriers, warning devices and traffic management plans
- site preparation, safety plans, job requirements and work schedules
- third-party issues.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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